

FIGURE 1

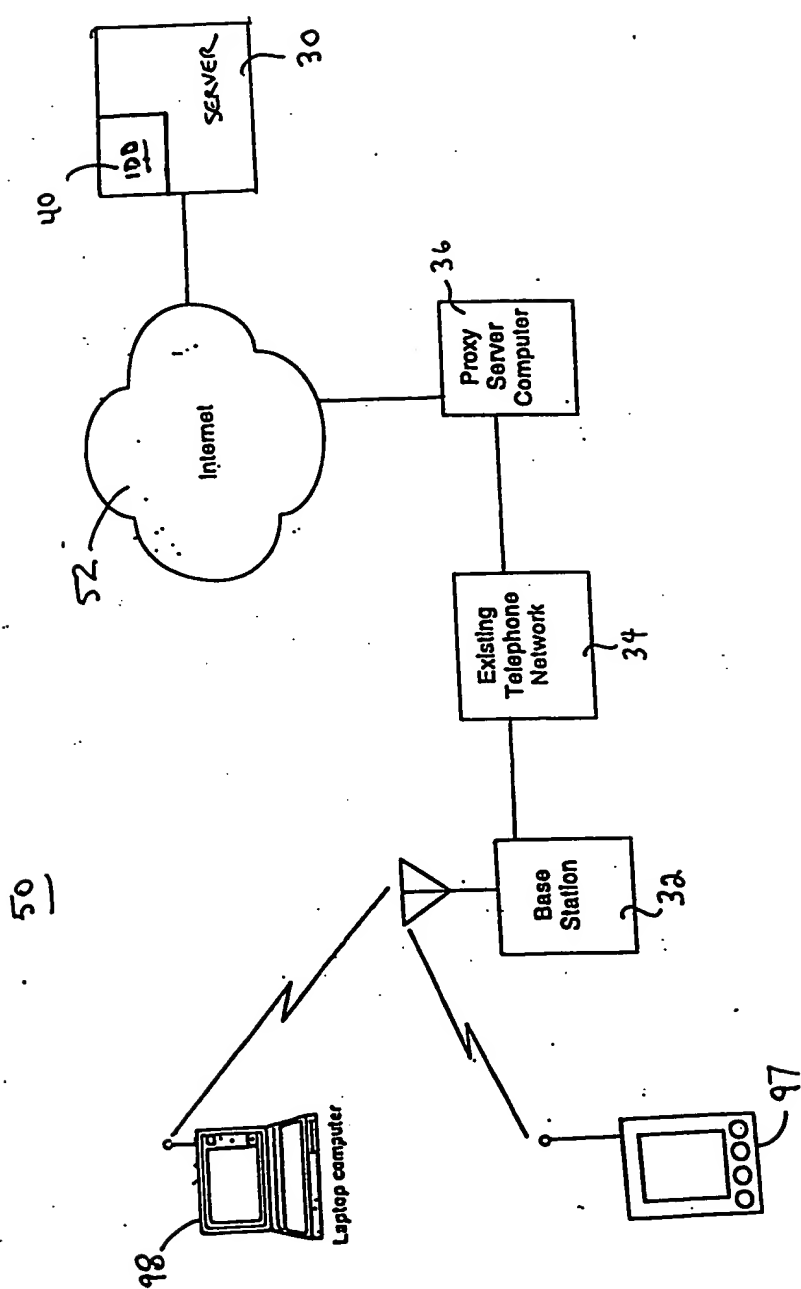


Figure 1

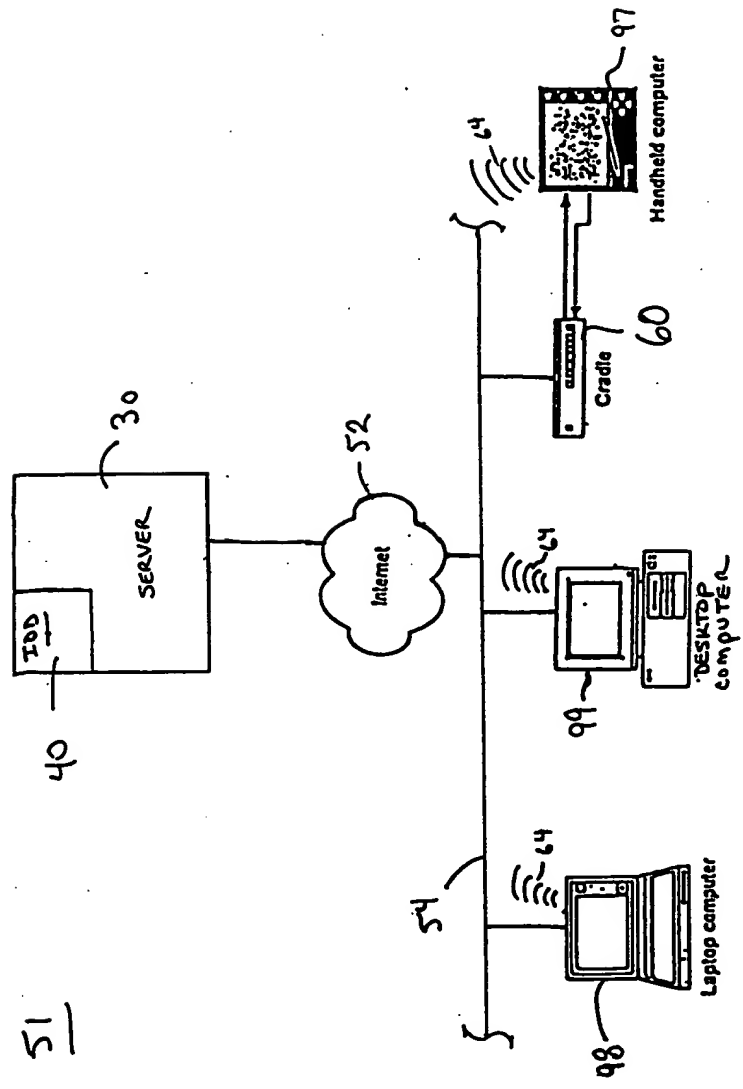


FIGURE 2

100

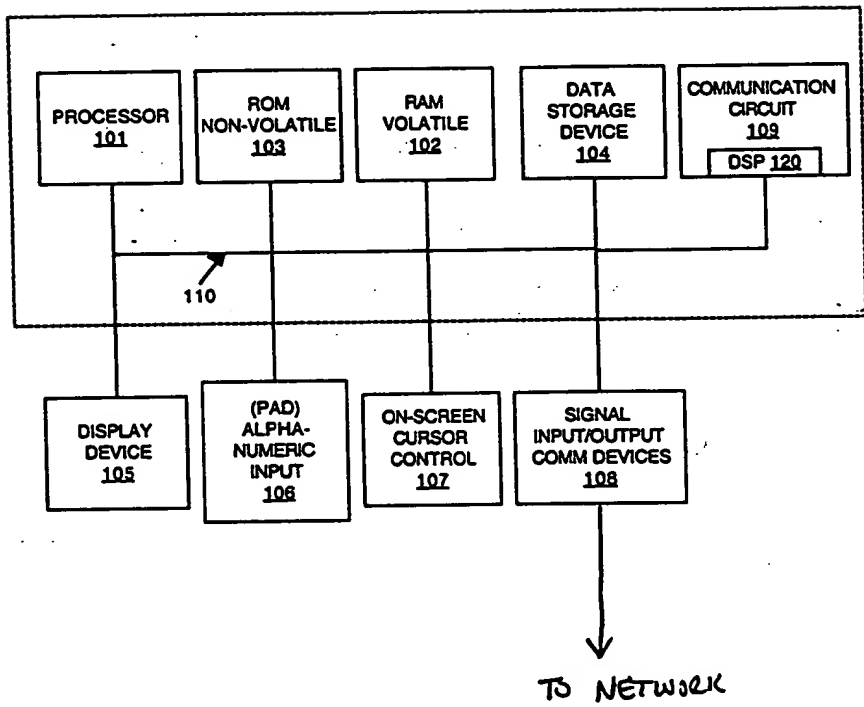


Figure 3

FIG. 4

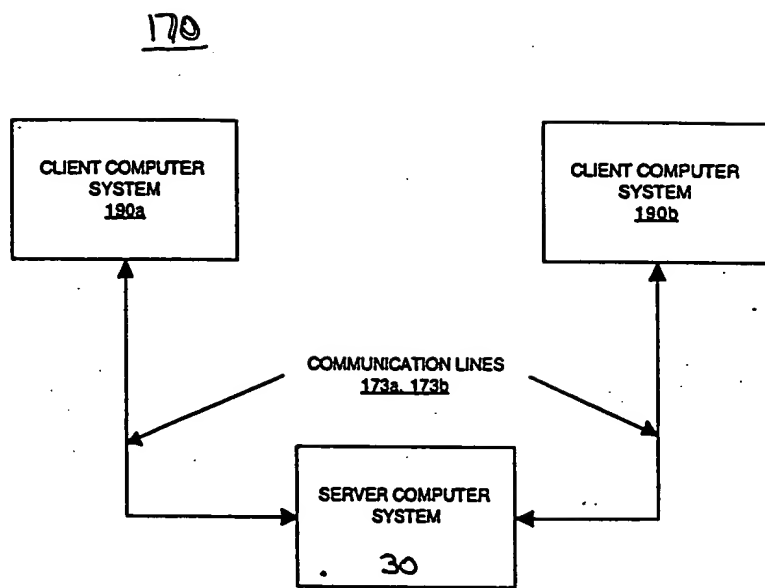
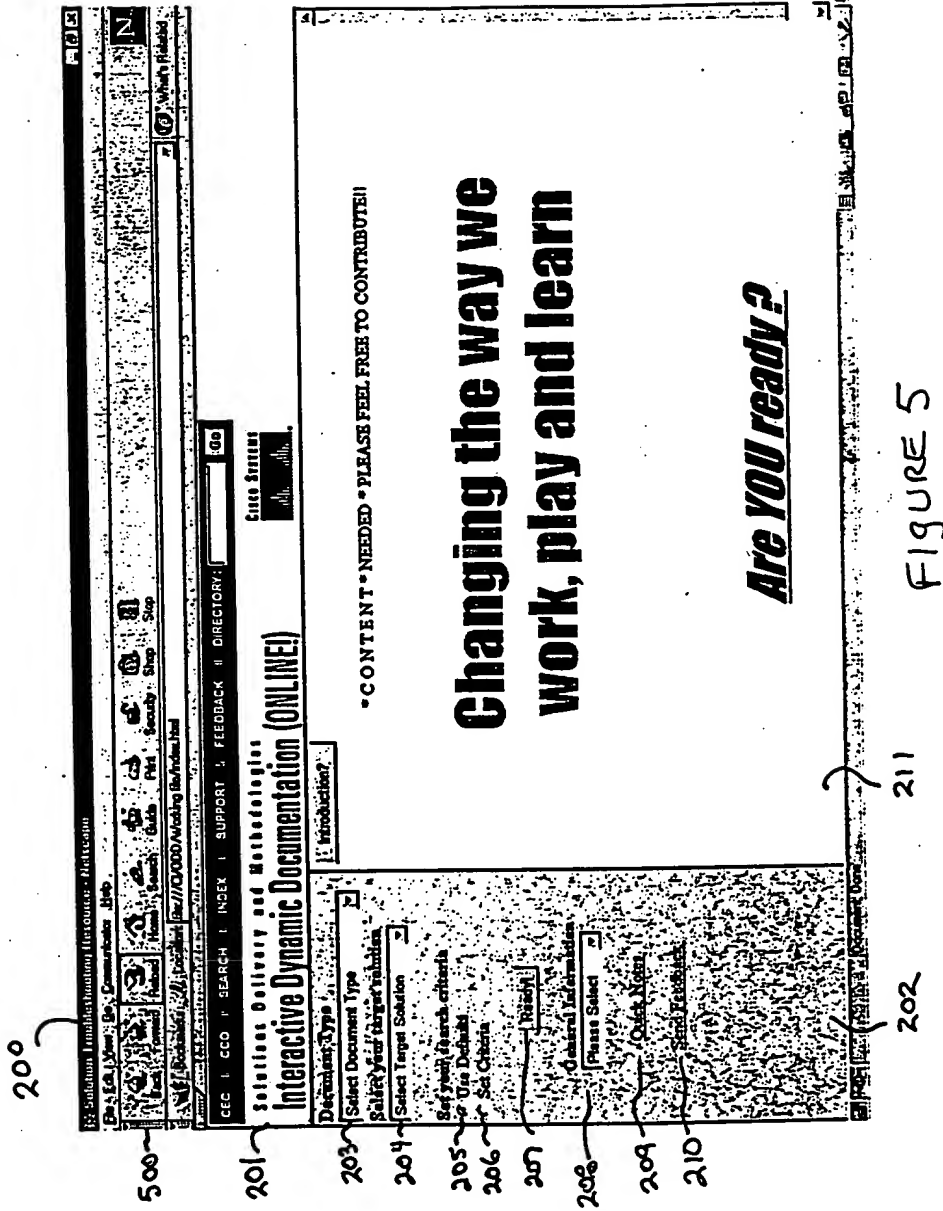
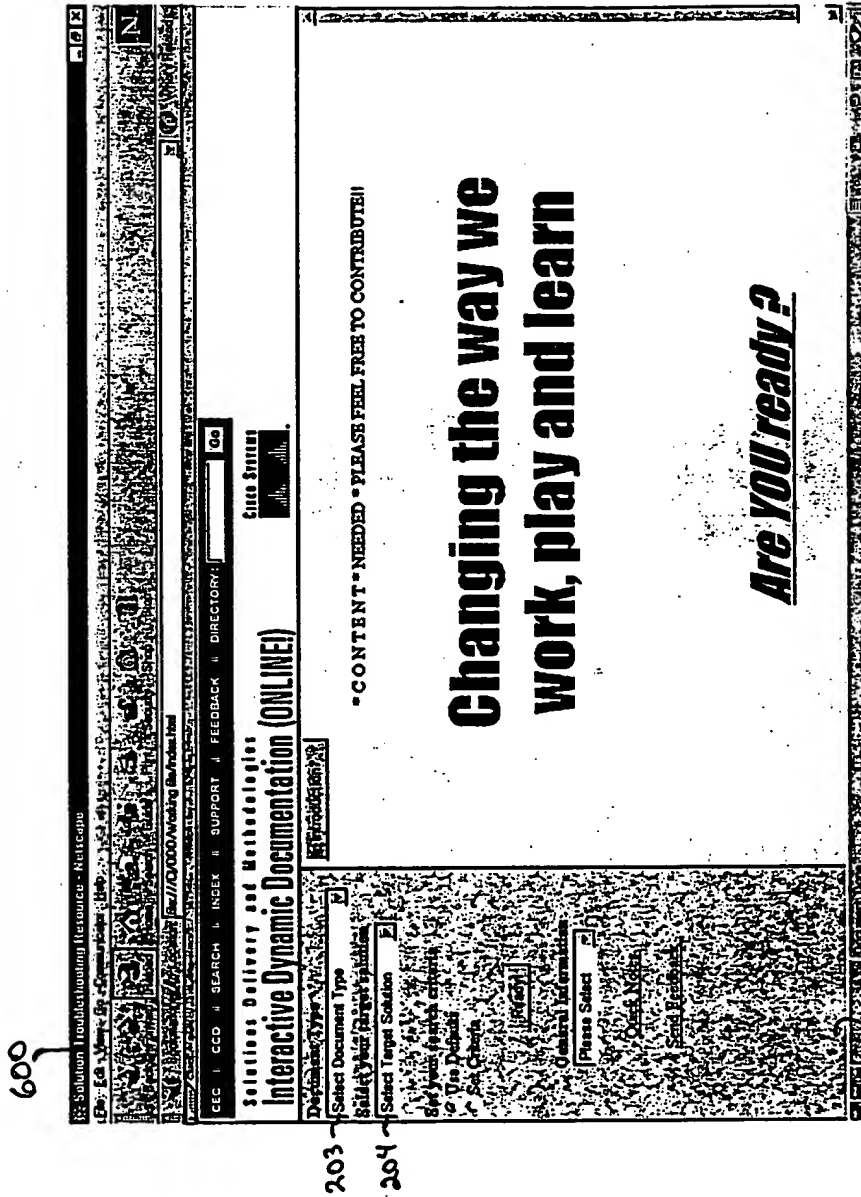


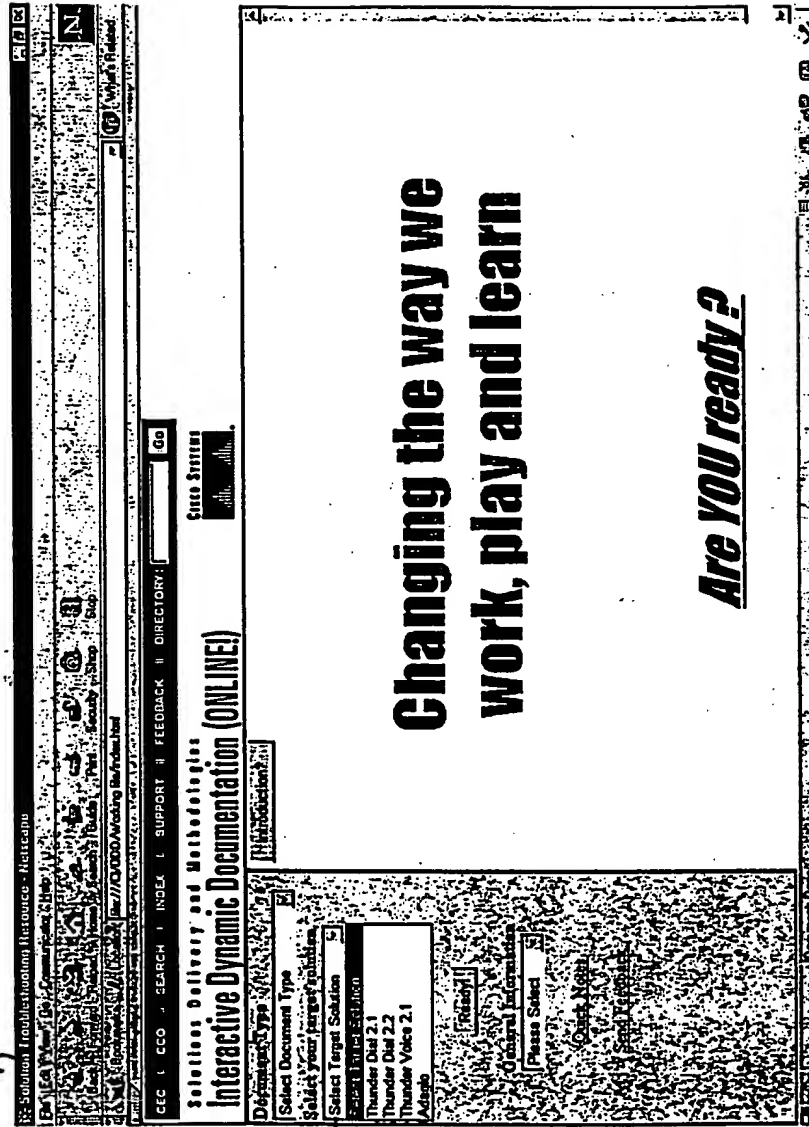
Figure 4





600

7



204

FIGURE 6B

600

Navigation Links

Home | About | Contact | Search | Help

Interactive Dynamic Documentation (ONLINE!)

Selections, Delivery, and Methodologies

Search

Search | INDEX | SUPPORT | FEEDBACK | DIRECTORY

Documentation Type

Select Document Type

Select Your Target Audience

Introduction

Set your search criteria

Use Defaults

Set Criteria

General Information

Please Select

Quick Note

Send Feedback

204

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Changing the way we  
work, play and learn

Are YOU ready?

\*CONTENT\* NEEDED \*PLEASE FEEL FREE TO CONTRIBUTE!!

FIGURE 7



600

**Solution Delivery and Methodologies**

## Solution Analysis Criteria

**Deployment Type**  
 Select Document Type  
 Select your target platform  
 Thursday 3/24

**Set your search criteria:**  
 Use Defaults  
 Set Criteria

**General Information**  
 Please Select  
 Search Again  
 Save Results

**CCO - SEARCH INDEX SUPPORT FEEDBACK DIRECTORY GO**

**Unit Test Development Test Early Field Trial Production**

Please select your current implementation phase (Optional)

---

Please select the applicable software version(s) (Optional)

Signal Link Terminal (SLT) <small>Select Target SLT software release</small>	Network Access Server <small>Select Target NAS software release</small>	Signal Controller <small>Select Target SC/VSC software release</small>
---	--	---

**Search Criteria**

The values set from this page will affect all subsequent displays. The objective here is to minimize the need to look through menus, log messages, commands etc. that do not apply to the problem at hand. The components displayed below are based upon the solution you selected.

When applicable, recommendations such as "How to proceed..." will be provided. These recommendations will be affected by the specified Implementation Phase.

The default implementation phase is Production. This is the most restrictive phase, meaning that the "least destructive" recommendations would be provided. The Development Engineers will have the ability to set the "default" software release for their respective products. This will generally be the latest release available.

FIGURE 8

009

CEC   ECO   SEARCH   INDEX   SUPPORT   FEEDBACK   DIRECTORY: [Go]													
<h2 style="text-align: center;">Solution Delivery and Methodologies Solution Analysis Criteria</h2>													
<p><b>Document Type</b></p> <p>Select your target solution</p> <p>[Thurco/DJ-2]</p>	<p>Please select your current implementation phase (Optional)</p> <p>Unit Test Development Test Early Field Trial Production</p>												
<p><b>Deployment Type</b></p> <p>Select your search criteria</p> <p>Use Defaults at Set Criteria</p> <p>[Ready!]</p>	<p>Please select the applicable software version(s) (Optional)</p> <table border="1"> <thead> <tr> <th>Signal Link Terminal (SLT)</th> <th>Network Access Server</th> <th>Signal Controller</th> </tr> </thead> <tbody> <tr> <td>Select Target SLT software release</td> <td>Select Target NAS software release</td> <td>Select Target SCVSC software release</td> </tr> <tr> <td>Select Target SLT software release</td> <td></td> <td></td> </tr> <tr> <td>[2.1.00]</td> <td></td> <td></td> </tr> </tbody> </table> <p>[Submit Criteria]</p>	Signal Link Terminal (SLT)	Network Access Server	Signal Controller	Select Target SLT software release	Select Target NAS software release	Select Target SCVSC software release	Select Target SLT software release			[2.1.00]		
Signal Link Terminal (SLT)	Network Access Server	Signal Controller											
Select Target SLT software release	Select Target NAS software release	Select Target SCVSC software release											
Select Target SLT software release													
[2.1.00]													
<p>The values set from this page will affect all subsequent displays. The objective here is to minimize the need to look through alarms, log messages, commands etc. that do not apply to the problem at hand. The components displayed below are based upon the solution you selected.</p> <p>When applicable, recommendations such as "How to proceed..." will be provided. These recommendations will be affected by the specified Implementation Phase.</p> <p>The default implementation phase is Production. This is the most restrictive phase, meaning that the "least destructive" recommendations would be provided. The Development Engineers will have the ability to set the "default" software release for their respective products. This will generally be the latest release available.</p>													

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**Solutions Analysis Criteria**

DEC - CCO - SEARCH - INDEX - SUPPORT - FEEDBACK - DIRECTORY: [Go] [Cuto Screen]

### Solution Delivery and Methodologies Solution Analysis Criteria

Decompose Type [ ]  
Select Document Type [ ]  
Submit your target problem [ ]  
[Insert Q3121]

Set your search criteria:  
- On Details [ ]  
- Set Criteria [ ]  
[Reset]

General Information  
Phase Select [ ]  
Quick Note [ ]  
Fast Feedback [ ]

---

Please select your current implementation phase (Optional)

[ ] Unit Test [ ] Development Test [ ] Early Field Trial [ ] Production

---

Please select the applicable software version(s) (Optional)

Signal Link Terminal (SLT)	Network Access Server	Signal Controller
Select Target SLT software release [ ]	Select Target NAS software release [ ]	Select Target SCVSC software release [ ]
12.1(23) SUPER CHARGE		

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The values set from this page will affect all subsequent displays. The objective here is to minimize the need to look through alarms, log messages, commands etc. that do not apply to the problem at hand. The components displayed below are based upon the solution you selected.

---

When applicable, recommendations such as "How to proceed..." will be provided. These recommendations will be affected by the specified Implementation Phase.

---

The default implementation phase is Production. This is the most restrictive phase, meaning that the "least destructive" recommendations would be provided. The Development Engineers will have the ability to set the "default" software release for their respective products. This will generally be the latest release available.

FIGURE 10

600

**Solution Analysis Criteria**

Document Type: [Select Document Type] [Go]

Select your target platform: [Target Platform]

Set your search criteria:

- Use Defaults
- Use Set Criteria

[Reset]

General Information

Phase Select [v]

Quick Menu

Send Feedback

---

Please select your current implementation phase (Optional)

Unit Test Development Test Early Field Trial Production

---

Please select the applicable software version(s) (Optional)

Signal Link Terminal (SLT)	Network Access Server	Signal Controller
Select Target SLT software release v	Select Target NAS software release v	Select Target SCVSC software release v
7.3.1	7.3(16)	7.4(9)
Submit Criteria		

---

The values set from this page will affect all subsequent displays. The objective here is to minimize the need to look through alarms, log messages, commands etc. that do not apply to the problem at hand. The components displayed below are based upon the solution you selected.

When applicable, recommendations such as "How to proceed..." will be provided. These recommendations will be affected by the specified Implementation Phase.

The default implementation phase is Production. This is the most restrictive phase, meaning that the "least destructive" recommendations would be provided. The Development Engineers will have the ability to set the "default" software release for their respective products. This will generally be the latest release available.

FIGURE 11



Figure 12

1200

CCO SEARCH INDEX SUPPORT FEEDBACK DIRECTORY GO

Solution Delivery and Methodologies  
Troubleshooting and Analysis Assistant

and by Description and by Validation

1300 1301 1340 1335 1330 1310 1302

Description: Remember that multiple alarms are likely to occur if severe failure scenarios take place. For instance, an LF LOS would typically also result in SUPPORT FAIL and SC FAIL. By taking stock of ALL alarms triggered, you should be able to pinpoint the general problem area and perhaps the point of failure.

Procedure: NA

Description: Below is a list of the more common, but significant alarms you might see.

Procedure: Alarm Description

LF LOS This alarm typically indicates a physical problem, but it may also indicate an error occurring on the remote end.

LF FAL This alarm typically indicates a physical problem, but it may also indicate an error occurring on the remote end.

SUPPORT FAL This alarm also indicates a physical problem. It might indicate the failure of a supporting entity such as Layer 1 framing.

EOPT FAL This alarm also indicates a physical problem. It might indicate a bad card.

SC FAL This alarm typically indicates an abstract signaling problem that requires further diagnosis.

FAL This alarm typically indicates an abstract signaling problem that requires further diagnosis.

CONF FAL This alarm indicates a serious problem that can result from hand-editing .dat files. It can also indicate a mis-configuration of one or more parameters.

211 FIGURE 13

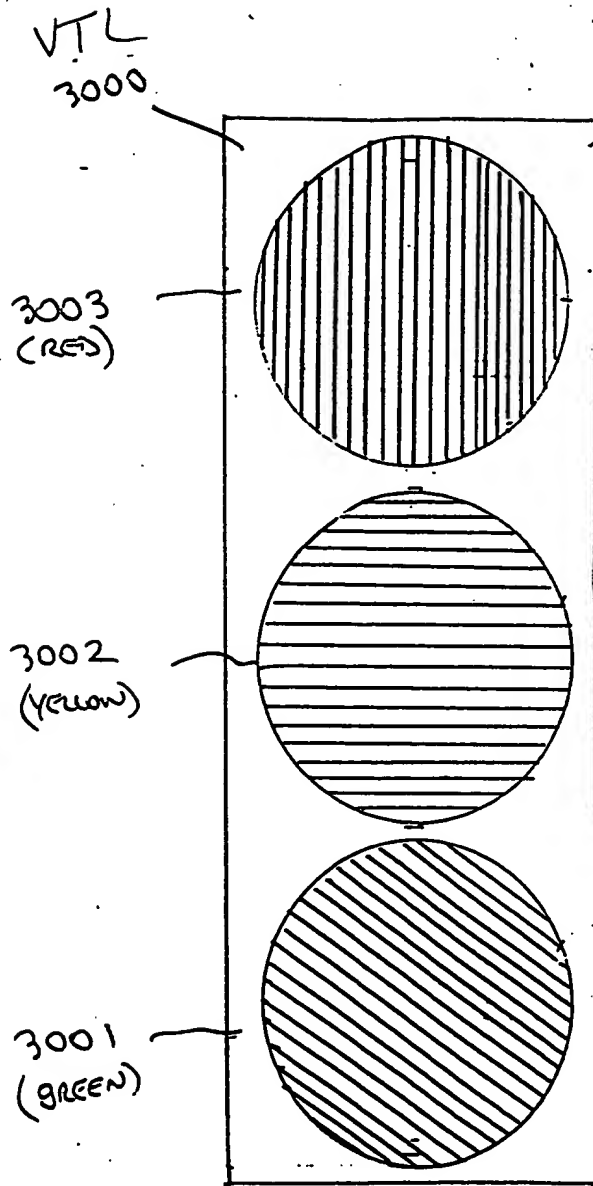


FIGURE 14





1600

1600

211

202

FIGURE 16

1600

211

202

FIGURE 16

# **Solutions Delivery and Methodologies** **Troubleshooting and Analysis Assistant**

Thunder Dial 2.1.1 Solution Overview

The Cisco SS7 Interconnect for Access Servers Solution is a distributed system used for interconnecting Cisco network access servers (NASs) to a circuit-switched TDM network using Signaling System #7 (SS7) protocols for signaling. The interconnections are achieved using a protocol conversion platform called the Cisco Signaling Controller combined with the Cisco Signaling Link Terminal. The Cisco SC2200 comprises the hardware and software package that provides the signaling controller function in the Cisco SS7 Interconnect for Access Servers Solution. It provides high availability, high performance, and key scaling.

When large points of presence (POPs) receive calls from the Public Switched Telephone Network (PSTN), the traffic is routing over legacy architectures. In-band signaling (such as Integrated Services Digital Network Primary Rate Interfaces (ISDN PRI)) in-band channel-associated signaling (CAS), or single analog lines) rather than out-of-band signaling like SS7 is used. With both signaling and bearer traffic routing over the lines, these legacy switches become congested with modem traffic and limited circuit. Cisco offers the Cisco SS7 Interconnect for Access Servers Solution that offloads the signaling to an out-of-band network so that available bandwidth increases.

The Cisco SS7 Interconnect for Access Servers Solution is a distributed system that adds SS7 signaling interfaces to large ISP POPs. SS7 interfaces are connected to the PSTN by using the same signaling technology as a PSTN switch. The Cisco SS7 Interconnect for Access Servers Solution consists of the Cisco signaling controller (also referred to as the Cisco SC2200 product), which includes the Cisco Signaling Link Terminal (Cisco SLT) and the network access server (NAS). The Cisco SS7 Interconnect for Access Servers Solution turns a POP into an end-office switching system in the PSTN, allowing direct peer-to-peer signaling connectivity. The POP, as a switch, connects directly to the rest of the network as a peer. After connections to the Internet are aggregated at a POP, streams of user packets are statistically multiplexed for efficient transport over the backbone network.



FIGURE 17

0081

Figure 18

Figure 18

1800

How Do I: New Content - Netscape

Question:

Contributor:

Description:

To change SNMP manager in SC2200 2.0 without using TCT, change current entries in /opt/TransPath/snmp/snmpd.cnf. Changing the entries in

Answer:

If using TCT:

- 1) On TCT
  - delete the old SNMP manager and add a new one with the new IP address.
  - build and deploy the config
- 2) On the MASTER stop transpath (we don't want frepld overwriting stuff we've just changed).
- 3) On the SLAVE : use "config-lib retrieve" to get the new config. You

\* Only the original contributor (mwnelson) and the administrator may edit this entry once it is submitted. If you are submitting content on behalf of someone else place their user id in this field.

file: /cgi-bin/vodd/howDoI/editContent.pl modified: October 18, 2000

FIGURE 19

2000

2000

2010

2020

2030

2040

2050

21

2000

2010

2020

2030

2040

2050

21

2000

2010

2020

2030

2040

2050

21

2000

2010

2020

2030

2040

2050

21

FIGURE 20



2101

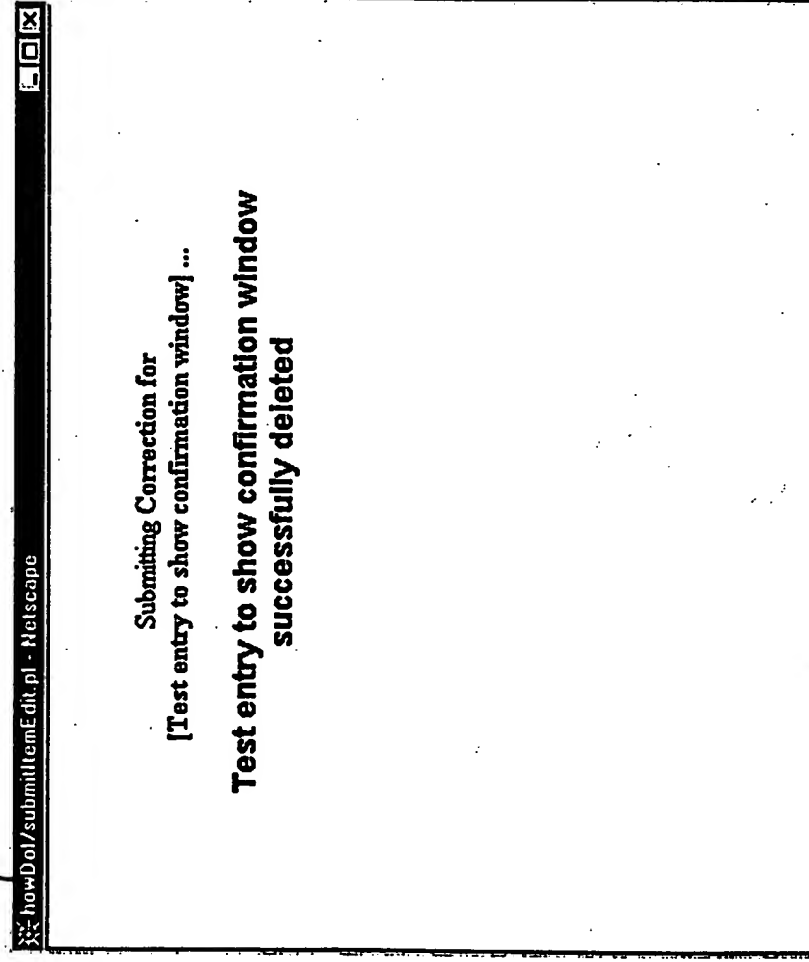


FIGURE 21A





2300

How Do I: Comments - Netscape

### Disable sync on two VSC's in order to make changes on one box.

**Description:**

Disable sync on two VSC's (active and backup configurations) in order to make changes on one box. The objective is to allow you to roll back to the working configuration in the event the new configuration has problems and minimize impact to production. This might be used for example, with customers when timers are changed, trunks are added, or additional destinations are added.

**Answer:**

1. Make sure FOVERD (the fail over daemon) is running on the standby VSC using the UNIX command:  
`ps -ef | grep trans`
2. Ensure the current configurations are synced up with each other.
3. Stop the engine on the Active system and ensure the standby VSC has assumed control.
4. Change `"desiredPlatformState"` in `XECfgparm.dat` on both VSC to `"standalone"`
5. Change `"SyschedpointEnabled"` in `XECfgparm.dat` on active VSC to `"false"`
6. Make the desired change on the active VSC and then switch back to the active VSC, using step 1 and 3 in reverse.
7. If the configurations are correct everything should work as desired.
8. Change `"SyschedpointEnabled"` in `XECfgparm.dat` on the active VSC to `"true"`

Current Validation Level: 0

**Comments:**

new comment goes here

comment id: [auto-generated] contributed by mwnelson

file: /cgi-shell/odd/howDoI/editContent.pl modified: October 18, 2000

FIGURE 23

2400

howDol/secComments.pl - Netscape

### Disable sync on two VSC's in order to make changes on one box.

**Description:**

Disable sync on two VSC's (active and backup configurations) in order to make changes on one box. The objective is to allow you to roll back to the working configuration in the event the new configuration has problems and minimize impact to production. This might be used for example, with customers when times are changed, trunks are added, or additional destinations are added.

**Answer:**

1. Make sure FOVERD (the fail over daemon) is running on the standby VSC using the UNIX command:  
`ps -ef | grep trans`
2. Ensure the current configurations are synced up with each other.
3. Stop the engine on the Active system and ensure the standby VSC has assumed control.
4. Change `"desiredPlatformState"` in `XECfgparam.dat` on both VSC to `"standalone"`
5. Change `"SyschedpointEnabled"` in `XECfgparam.dat` on active VSC to `"false"`
6. Make the desired change on the active VSC and then switch back to the active VSC, using step 1 and 3 in reverse.
7. If the configurations are correct everything should work as desired.
8. Change `"SyschedpointEnabled"` in `XECfgparam.dat` on the active VSC to `"true"`

**Comments:**

1 Can someone please validate this procedure? I have seen other recommendations in the past that differ with this one and I would like to know this information is correct.

submitted 11/09/2000 at 14:50 comment id: 33

2 I have used this procedure and have validated it. The light should now be green!!

submitted 11/09/2000 at 14:52 comment id: 34

modified: September 25, 2000

FIGURE 24

2500

7

How Do I: Validation - Netscape

### Configuring for dual IP addresses

Description:

Answer:

Configure the 2nd Ethernet card in the SUN:

- su to root
- do command "ifconfig hme1 plumb"
- If you need to add another default gateway (in addition to "default router") then go to /etc/rc2.d and at the end of the S60inet file append:  
"route add (metric 1 if on same subnet)"
- cd to the /etc directory
- Create a file called "hostname.hme1", and in this file put a new hostname for the system (e.g E-452.cisco.com). You must create a separate hostname for the second Ethernet card it cannot use the same hostname as the other one.
- Edit the "hosts" file adding the new hostname and the IP address you want to allocate to the second Ethernet card.
- Edit the "netmask" file adding a new line with the new network number of the subnet followed by a space then the netmask to apply to that network.
- Type "init 0". This goes to "ok" prompt, anyway at the "ok" prompt type: "setenv local-mac-address? true" and reboot by typing "boot" or "boot -f". This should reconfigure the kernel and activate the second Ethernet interface. You should then be able to set it activated by querying it with "ifconfig -s" (You should see hme1 now with the 2nd IP and Ethernet MAC address).

If using a Netra that has a clockspeed of 450Mhz (greater than 419Mhz)  
To find out the speed of the Netra, at the OK prompt type banner this will tell you the speed at which the Netra is being clocked at. If the speed is greater than 419Mhz a pre-installer MUST be used, that patches the kernel allowing the processor to function at its correct speed. (The Netra will network without this pre-installer).

Current Validation Level: 0

howdoi id: 25 contributed by mwnelson

2502

2501

Cancel Negative Validation Positive Validation

what do negative and positive validation mean?

file: /cgi-shell/odd/howdoi/editContent.pl modified: October 18, 2000

2503

FIGURE 25

FIGURE 26

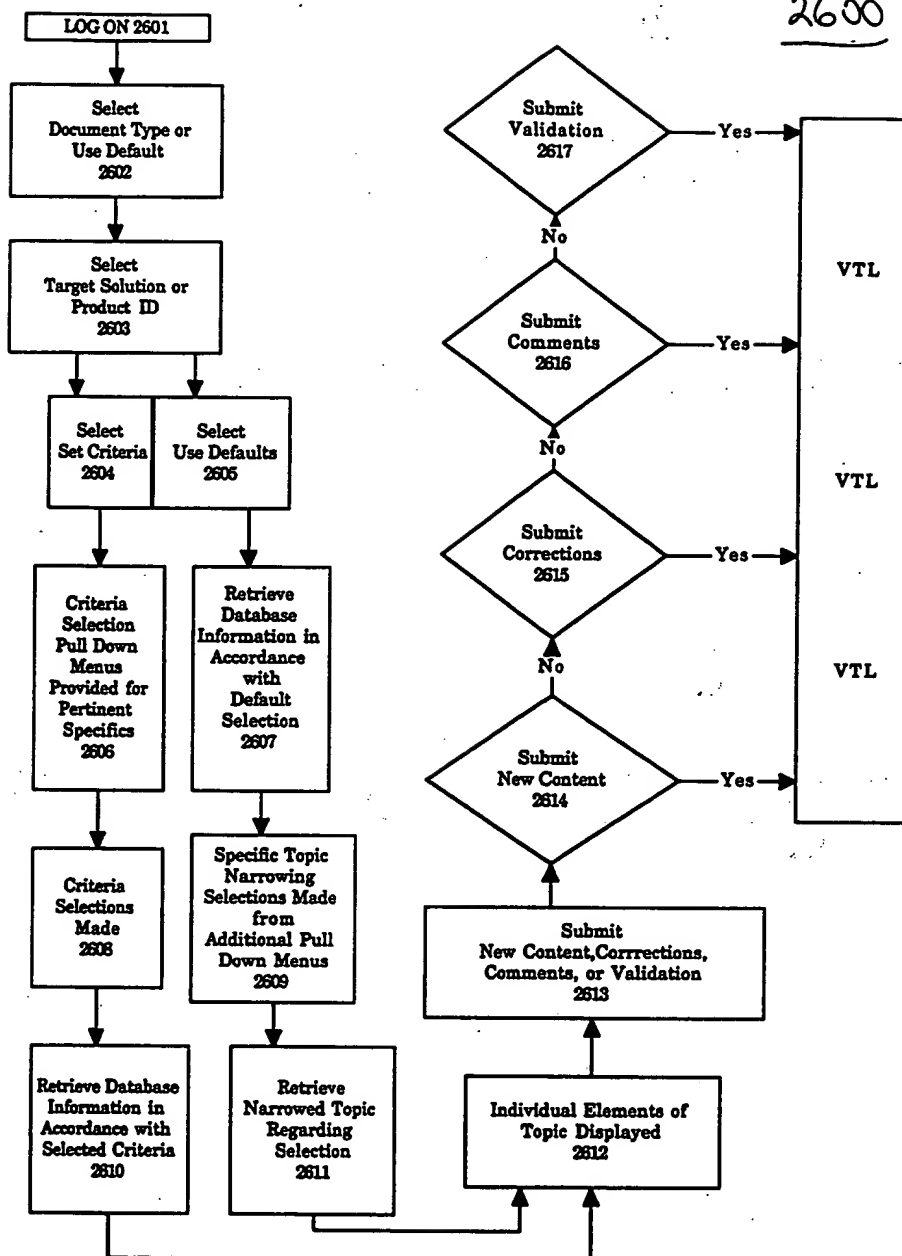


FIGURE 26